



INFRAPIPE FIRE SUPPLY TANKS

DESIGN REQUIREMENTS

INFRAPIPE is an independent NZ manufacturer that began supplying fully certified flexible pipes and tanks to the market in 2022. Using their brand-new European KRAH machine in Auckland they can quickly produce tanks up to 3.2m in diameter, the largest in Australasia, ideal for underground fire supply.



VOLUMES

Tanks can be made to any size by easily and quickly joining sections [on site] that are up to 15m long (a 2.5m ID section 12m long only weighs 6 tonnes for instance). Tanks can be joined in any fashion creating U, L, E, F, O or T shaped tanks (for instance) allowing the designer to make the best use of space. Minimum cover is typically 700mm, typical fall 1%.

Example tank volumes – any size possible

DN(ID)	m ³ /m	11.6m	25m	50m	100m
1000	0.79	9	20	39	78
1500	1.77	20	44	88	176
2000	3.14	36	79	157	304
2300	4.15	48	104	208	416
2500	4.91	57	123	245	490
3200	8.04	93	201	402	804

Diameters 1100,1200,1350,1600,1800 available

CHECKLIST FOR TANK DESIGN

- ✓ Suction, vortex plate etc.
- ✓ Sump for suction
- ✓ Auto Top-up system
- ✓ Manual fill method
- ✓ Overflow
- ✓ Vent
- ✓ Pump Return
- ✓ Level sensor
- ✓ Effective capacity
- ✓ Fall, cover and ILs
- ✓ Access & risers

INFRAPIPE then calculates

- ✓ Pipe (tank) stiffness & OD
- ✓ Trench design
- ✓ Buoyancy mitigation (if required)

STANDARDS

- INFRATANK HDPE fire tank solutions meet the requirements of NZS4541:2020 (sprinklers) or SNZ PAS 4509:2008 (buffer tanks for fire-fighting)
- INFRAPIPE is certified to ISO 9001:2015
- Tanks and pipes are certified to AS/NZS5065:2005
- Pipes tested to ISO9969
- Trench design to AS/NZS2566.



BENEFITS OF HDPE INFRATANKS

- 100 YEAR LIFE
- Immune to biological or chemical attack
- Absolutely no maintenance or decay
- Best seismic resilience
- Penetrations are homogenous
- Leadtime 4-6 weeks
- Fully recyclable
- Best environmental impact

See [Material Guide](#) for more details.





SOME COOL PROJECTS

AUCKLAND PORT
DN2500
CUSTOM BEND AND RISER

AUCKLAND
4*DN2500
PULLPITS

AUCKLAND AIRPORT
DN2500
MANHOLE

AUCKLAND
48m DN1500

PUKEKOHE
60m DN1000
SOLID WALL
UNDER RAILWAY

MORRINSVILLE
26m DN2500
CULVERT

HAMILTON
86m³ DN2500
WASTE WATER TANK

HAMILTON
204m³ TANK DN3200
+908m DN 525/600

WAIHEKE
13m DN1600
and DN1550
PILE LINERS

TAURANGA
180m DN900
22DEG GRADIENT 4 MANHOLES

TAURANGA
DN2500 &
DN2000 CLARIFIER

TAURANGA
40m DN3200
SN40+
WITH RISER
AND BEND

NEW PLYMOUTH
118m³ DN3200

WAIKATO
30m DN1000

TARANAKI
32m DN1500
MANHOLES
FOR GROWING
PLANTS

CHRISTCHURCH
28m DN700 and
DN2000 MANHOLE

CHRISTCHURCH
32m DN3200

INVERCARGILL
34m DN2500

HAWKES BAY
40m DN3200

HAWKES BAY
32m DN3200

This is just a sample of the projects we have fulfilled showing how **versatile, how **strong** and how easy to handle our **KRAHT™ HDPE** product is.**

ISO 9001 Certified
ISO TYPE 5
AS/NZS 4130:2018
AS/NZS 5065:2005
ISO TYPE 5
AS/NZS 4130:2018
AS/NZS 5065:2005
NEW ZEALAND MADE

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